
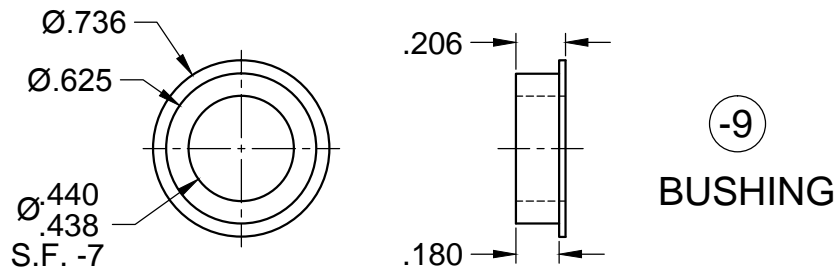


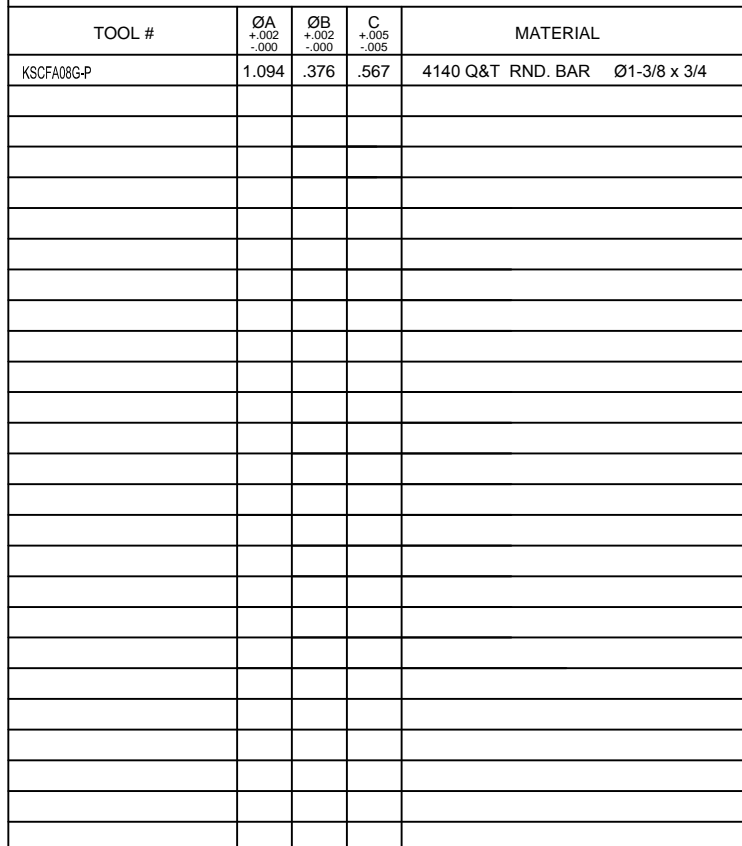
Technical drawing of a shaft assembly. The drawing includes a cross-section view of the shaft and a side view. The cross-section view shows a shaft with a central hole of diameter $\varnothing.500$ and a keyway with a width of $.436$ and a depth of $.434$. The side view shows a shaft with a diameter of $\varnothing.312$ and a tolerance of $.310$. It has a length of 1.60 and a keyway with a width of $.80$ and a depth of $.155$. The shaft is mounted on a bearing with a diameter of $\varnothing A$ and a tolerance of $.002$. The bearing has a length of $.75$ and a diameter of $\varnothing E$. The shaft has a surface finish of S.F.-3. The drawing includes dimension lines and labels for various features.


[illegible]

 RED BARN MACHINE			
TITLE PORTABLE BEARING CUTTERS; FOR BACB10FA CLASS BEARINGS			
DWG NO. TOOL#(see chart)-11			REV 4
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5°		DRAWN BY: PERRITT APPROVED HEAT TREAT FINISH SPEC BLACK OXIDE USED ON BEARING SEE CHART	
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING			
SCALE NTS	DATE 1-10-08	SHEET 6	of 6



 RED BARN MACHINE	
TITLE PORTABLE BEARING CUTTERS; FOR BACB10FA CLASS BEARINGS	
DWG NO.	REV
TOOL#(see chart)-7 & -9	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1	DRAWN BY: PERRITT APPROVED HEAT TREAT FINISH SPEC
FRACTIONS ± 1/32 ANGLES ± 5°	USED ON BEARING
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE NTS	DATE 1-10-08
SHEET 5 of 6	



 RED BARN MACHINE	
TITLE PORTABLE BEARING CUTTERS; FOR BACB10FA CLASS BEARINGS	
DWG NO.	REV 4
TOOL#(see chart)-3	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5°	DRAWN BY: PERRITT APPROVED HEAT TREAT FINISH SPEC BLACK OXIDE USED ON BEARING SEE CHART
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE NTS	DATE 1-10-08
SHEET 3 of 6	


Technical drawing of a Spring Tensioner (Part -1) showing front, top, and cross-sectional views with dimensions and section A-A.

Front View (Left): Shows a cylindrical part with a knurled section. Dimensions include overall length .850, knurled section length .400, and other features at .535 and .580.

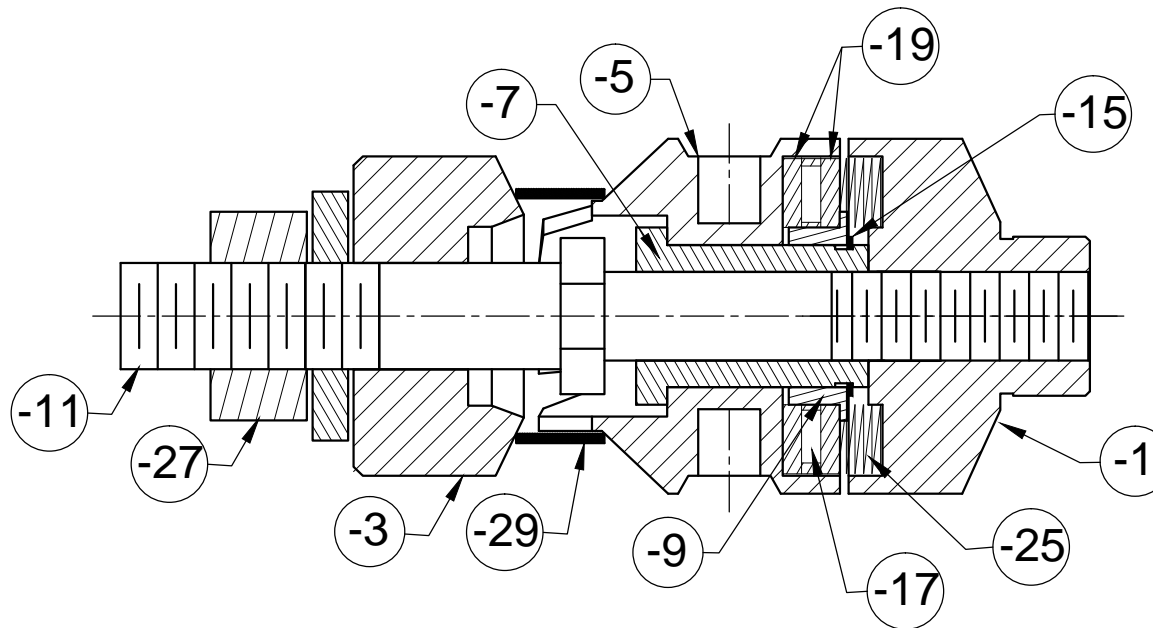
Top View (Middle): Shows a circular cross-section with a central hole. Dimensions include outer diameter $\varnothing 1.125$, inner hole diameter $\varnothing .625$, and a central hole diameter $\varnothing 5/16-24$. Section lines A-A are indicated.

Section A-A (Right): A cross-sectional view showing the internal structure. Dimensions include a 65° chamfer, a .032x45° feature, a .544 width, a .560 HEX section, and a .315 base width. Other dimensions shown are .070, .120, and $\varnothing .314$.

Labels: KNURL, $\varnothing A$, $\varnothing 1.125$, $\varnothing .625$, $\varnothing 5/16-24$, SECTION A-A, -1, SPRING TENSIONER.

 RED BARN MACHINE	
TITLE PORTABLE BEARING CUTTERS; FOR BACB10FA CLASS BEARINGS	
DWG NO. TOOL#(see chart)-1	REV 4
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± .5°	DRAWN BY: PERRITT APPROVED HEAT TREAT FINISH SPEC BLACK OXIDE USED ON BEARING SEE CHART
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE NTS	DATE 1-10-08
SHEET 2 of 6	

REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	CHANGED -11 SEAT END FROM 1/4-20 & LENGTH FROM 4 in., PER DAVE. ALSO DELETED -13 HANDLE & -21 KNOB.	1/20/08	WP	DW
2	KSC4103-8-5 TOOTH AMT. CHANGED FROM 6, KSC-BACB10FA08G TOOTH AMT., CHANGED FROM 8.	2/13/08	WP	DW
3	ADDED TOOL #'S 103-5 TO 103-7; ADDED DIM. ØE & THREAD LENGTH TO -11 STUD; AND ADDED DIM. C TO -3 SEAT.	3/4/08	WP	DW
4	WIDENED -5 CUTTER TEETH FROM .045 TO .060.	4/28/08	WP	DW



BEARINGS & TOOLS COVERED	
BEARING #	TOOL #
BACB10FA08G	KSCFA08G-P

ASSY QTY	ASSY QTY	B/O	PART #	UNIT QTY	DESCRIPTION	MAT.	B/O INFORMATION OR SPECIFICATIONS	Pg.
			-1	1	SPRING TENSIONER		SEE TABLE	2
			-3	1	SEAT		SEE TABLE	3
			-5	1	CUTTER		SEE TABLE	4
			-7	1	GUIDE		SEE TABLE	5
			-9	1	BUSHING		SEE TABLE	5
			-11	1	STUD		SEE TABLE	6
		B/O	-15	1	EXTERNAL SPIRAL RETAINING RING		Ø7/16 SHAFT MCMaster-CARR PN: 91665A350	1
		B/O	-17	1	THRUST BEARING		Ø5/8 ID. x 1-1/8 OD. x 5/64 APPLIED PN: NTA-1018	1
		B/O	-19	2	THRUST WASHERS		Ø5/8 ID. x 1-1/8 OD. x 1/16 APPLIED PN: TRB-1018	1
		B/O	-23	1	SPANNER WRENCH		MCMaster-CARR PN: 5475A12	N/S
		B/O	-25	1	CREST TO CREST SPRING		APPLIED IND. (SMALLEY CO. PN: CS112-H2)	1
		B/O	-27	1	SWIVEL HEX FLANGE NUT	BLACK	SEE TABLE	6
		B/O	-29	1	TOOTH GUARD (FOR SHIPPING ONLY)	TUBE VINYL	SEE -5 ØB PAGE 4 FOR INSIDE DIA. OF TUBE x 5/8 LENGTH	1
	ASSY #							

TITLE PORTABLE BEARING CUTTERS; FOR BACB10FA CLASS BEARINGS	
DWG NO. SEE CHART ABOVE FOR TOOL No.	REV 4
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1	DRAWN BY: PERRITT APPROVED HEAT TREAT SEE PART FINISH SPEC SEE PART USED ON BEARING SEE CHART
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE NTS	DATE 1-10-08
SHEET 1 of 6	

NOT APPROVED FOR PRODUCTION



RED BARN MACHINE

NOT APPROVED FOR PRODUCTION

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

PART #	QTY	DESCRIPTION
-1	1	--

DRAWN BY: PERRITT	<div>RB</div> RED BARN MACHINE		
CHECKED	TITLE		
HEAT TREAT FINISH SPEC	TITLE		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1	FRACTIONS ± 1/32 ANGLES ± .5°		REV.
USED ON MODEL ?	DWG NO. PART #		
	SCALE NTS	DATE 1-28-06	SHEET 1 of 1
	UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING		